

United States Patent and Trademark Office

PAPER

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

10/03/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,308	11/06/2003	Vladimir Alexandrov Shurbanov	BBNT-P01-071	7999
28120 7590 10/03/2007 ROPES & GRAY LLP PATENT DOCKETING 39/41			EXAMINER	
			CHO, HONG SOL	
BOSTON, MA	ATIONAL PLACE . 02110-2624		ART UNIT	PAPER NUMBER
,			2616	
				<u> </u>
		•	MAIL DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/702,308	SHURBANOV ET AL.
Office Action Summary	Examiner	Art Unit
	Hong Cho	2616 ·
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FO WHICHEVER IS LONGER, FROM THE MA - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu. - If NO period for reply is specified above, the maximum statument of the provision of the	ILING DATE OF THIS COMMUNION of 37 CFR 1.136(a). In no event, however, may a reduction. In the statute of the	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed 2a) This action is FINAL . 2b 3) Since this application is in condition for closed in accordance with the practice.	p) This action is non-final. or allowance except for formal matt	
Disposition of Claims		
4)	withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the 10) The drawing(s) filed on is/are: a Applicant may not request that any objecti Replacement drawing sheet(s) including the second of	a) accepted or b) objected to long on to the drawing(s) be held in abeyangle correction is required if the drawing(ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
	ocuments have been received. ocuments have been received in A the priority documents have been al Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s)	·	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	D-948) Paper No(s	tummary (PTO-413) c)/Mail Date nformal Patent Application

Art Unit: 2616

DETAILED ACTION

Response to Amendment

1. This office action is in response to the amendment filed on 08/16/2007. Claims 3 and 16 are canceled. Claims 1, 2, 4-15 and 17-25 are pending in the instant application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view of Gleeson et al (US 5959989), hereinafter referred to as Gleeson, in view of Kim et al (US 7266386), hereinafter referred to as Kim,

Re claims 22 and 24, Gleeson discloses generating a frame (generating a flood packet, figure 4a, element 402a), selecting one of intermediate nodes (one or more relays, figure 2a, elements 220-223) to distribute a frame (selecting/identifying one or more of the nodes as a like number of one or more relays, column 14, lines 26-26), receiving the frame (receiving the flood packet) and adding multicast virtual local area network (MVLAN) identifier (ID) (MVLAN ID) to the frame to create a multicast frame (the

Art Unit: 2616

flood packet with the attached header, figure 4d, element 402d), where the multicast frame is distributed based on MVAN ID (attaching a header to the flood packet, the header instructing the one or more relays to which of the nodes to send the flood packet, column 13, lines 63-67), receiving the multicast frame at one of intermediate devices (sending the flood packet with the attached header to the one or more relays, column 14, lines 13-16). Gleeson fails to disclose distributing multicast messages in a wireless ad hoc network. Kim discloses performing packet flooding in a wireless ad hoc network (figure 2; column 4, lines 39-41). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Gleeson to be performed in a wireless network for the benefit of reduced costs of wireless networks in terms of network installation and maintenance.

Re claims 23 and 25, Gleeson discloses an intermediate device receiving a multicast frame (receiving a flood packet at a first one of the nodes, column 14, lines 115-16), stripping off the MVAN ID from the multicast packet (determining whether the flood packet includes an attached header and extracting the header when the flood packets includes the header, column 14, lines 23-24), where the multicast frame is distributed based on MVAN ID (the header identifying one or more second nodes to which the firs node is to transmit the flood packet, column 14, lines 20-23), and transmitting the frame stripped off the MVAN ID to subscribing entities (retransmitting the flood packets to the one or more second nodes based at least in part on the extracted header, column 14, lines 23-26). Gleeson fails to disclose distributing multicast messages in a wireless ad hoc network. Kim discloses performing packet flooding in a

Art Unit: 2616

Page 4

wireless ad hoc network (figure 2; column 4, lines 39-41). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Gleeson to be performed in a wireless network for the benefit of reduced costs of wireless networks in terms of network installation and maintenance.

Allowable Subject Matter

4. Claims 1, 2, 4-15 and 17-21 are allowable.

Response to Arguments

5. Applicant's arguments with respect to claims 22-25 have been considered but are not persuasive.

On the second page of the Remarks, the applicant argues that Gleeson doest not disclose flooding wireless packet with a relay configuration. The Examiner respectfully disagrees. Gleeson discloses flooding a packet by distributing a packet with a VLAN ID to members of multicast groups. Gleeson does not disclose distributing multicast messages in a wireless ad hoc network. Kim discloses performing packet flooding in a wireless ad hoc network.

Art Unit: 2616

Conclusion

Page 5

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087.

The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

Page 6

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

WING CHAN

SUPERVISORY PATENT EXAMINER

hC Hong Cho Patent Examiner 9/20/07